



287229US0XPCT

SEQUENCE LISTING

<110> GUILHOT, Christophe
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DE SOUSA, Celia

<120> USE OF PKS 13 PROTEIN CODING FOR CONDENSASE OF MYCOLIC ACIDS OF
MYCOBACTERIA AND RELATED STRAINS AS AN ANTIBIOTICS TARGET

<130> 287229US0XPCT

<140> 10/570,661

<141> 1006-03-06

<150> PCT/FR04/02257

<151> 2004-09-06

<150> FR 0310470

<151> 2003-09-04

<160> 31

<170> PatentIn version 3.1

<210> 1

<211> 1733

<212> PRT

<213> Mycobacterium tuberculosis

<400> 1

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35 40 45
Val Glu Leu Gly Leu Ser Ser Arg Asp Ala Val Ala Met Ala Ala Asp
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Ile Glu Asp Leu Thr Gly Val Thr Leu Ser Val Ala Val Ala Phe Ala
65 70 75 80
His Pro Thr Ile Glu Ser Leu Ala Thr Arg Ile Ile Glu Gly Glu Pro
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Glu Thr Asp Leu Ala Gly Asp Asp Ala Glu Asp Trp Ser Arg Thr Gly
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Pro Ala Glu Arg Val Asp Ile Ala Ile Val Gly Leu Ser Thr Arg Phe
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Gly Arg Asp Gly Ile Thr Asp Leu Pro Asp Gly Arg Trp Ser Glu Phe
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Leu Glu Glu Pro Arg Leu Ala Ala Arg Val Ala Gly Ala Arg Thr Arg
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Gly Gly Tyr Leu Lys Asp Ile Lys Gly Phe Asp Ser Glu Phe Phe Ala
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Met	Val	Thr	Leu	Gly	Phe	Asp	Glu	Ile	Gly	Ala	Val	Leu	Ala	Pro	Asp
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 Phe Asp Glu Phe Gly Asn Ile Ile Thr Asp Ser Ala Val Ala Glu Glu
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 Pro Glu Pro Glu Leu Pro Gly Val Thr Glu Glu Ala Leu Arg Leu Lys
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 675 680 685
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 850 855 860
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 865 870 875 880
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Pro Thr Ser Pro Thr Cys Gly Ile Phe Ser Thr Val His Glu Gly Arg
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 Tyr Ile Lys Pro Gly Gly Glu Pro Ile His Asp Val Glu Tyr Trp Lys
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 Lys Gly Leu Arg His Ser Val Tyr Phe Thr His Gly Ile Arg Asn Ala
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 Val Asp Ser Gly His Thr Thr Phe Leu Glu Leu Ala Pro Asn Pro Val
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 1330 1335 1340
 Val Asp Ser Glu Ala Gly Val Ala Leu Pro Ser Pro Gln Asn Gly Glu
 1345 1350 1355 1360
 Gln Pro Asn Pro Thr Gly Pro Ala Leu Asn Val Asp Val Pro Pro Arg
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 Asp Ala Ala Glu Arg Val Thr Phe Ala Thr Trp Ala Ile Val Thr Gly
 1380 1385 1390

 Lys Ser Pro Gly Gly Ile Phe Asn Glu Leu Pro Arg Leu Asp Asp Glu
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 Arg Thr Leu Arg Ala Arg Pro Glu Ala Gly Gly Lys Val Pro Val Phe
 1460 1465 1470
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 1490 1495 1500
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 Gln Arg Thr Ser Tyr Leu Asp Asn Arg Ala Ile Asp Thr Ala Gln Ile
 1635 1640 1645

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Gln Pro Tyr Asp Gly His Val Thr Leu Tyr Met Ala Asp Arg Tyr His
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 Asp Asp Ala Ile Met Phe Glu Pro Arg Tyr Ala Val Arg Gln Pro Asp
 1665 1670 1675 1680
 Gly Gly Trp Gly Glu Tyr Val Ser Asp Leu Glu Val Val Pro Ile Gly
 1685 1690 1695
 Gly Glu His Ile Gln Ala Ile Asp Glu Pro Ile Ile Ala Lys Val Gly
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 35 40 45
 Arg Asp Val Val Val Leu Ser Gly Glu Leu Glu Asn Leu Leu Asp Thr
 50 55 60
 Ser Leu Asp Ala Thr Ile Ala Tyr Glu Tyr Pro Thr Ile Arg Ser Leu
 65 70 75 80
 Ala Gln Arg Leu Val Glu Gly Glu Pro Arg Arg Ala His Thr Gln Arg
 85 90 95
 Glu Leu Asn Phe Ser Ala Val Ser Asp Ser Pro Gly Ser His Asp Ile
 100 105 110
 Ala Val Val Gly Met Ala Ala Arg Tyr Pro Gly Ala Glu Ser Leu Glu
 115 120 125
 Asp Met Trp Lys Leu Leu Val Glu Gly Arg Asp Gly Ile Ser Asp Leu
 130 135 140
 Pro Ile Gly Arg Trp Ser Glu Tyr Ala Gly Asp Glu Val Met Ser Arg
 145 150 155 160
 Lys Met Glu Glu Phe Ser Thr Ile Gly Gly Tyr Leu Ser Asp Ile Ser
 165 170 175
 Ser Phe Asp Ala Glu Phe Phe Gly Leu Ser Pro Leu Glu Ala Ala Asn
 180 185 190
 Met Asp Pro Gln Gln Arg Ile Leu Leu Glu Leu Thr Trp Glu Ala Leu
 195 200 205
 Glu Tyr Ala Arg Ile Ala Pro Asn Thr Leu Arg Gly Glu Ala Val Gly
 210 215 220
 Val Phe Ile Gly Ser Ser Asn Asn Asp Tyr Gly Met Met Ile Ala Ala

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225 230 235 240
 Asp Pro Ala Glu Ala His Pro Tyr Ala Leu Thr Gly Thr Ser Ser Ala
 245 250 255
 Ile Val Ala Asn Arg Ile Asn Tyr Ala Phe Asp Phe Arg Gly Pro Ser
 260 265 270
 Val Asn Val Asp Thr Ala Cys Ser Ser Ser Leu Val Ala Val His Gln
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 Ala Val Arg Ala Leu Arg Asn Gly Glu Ala Asp His Ala Ile Ala Gly
 290 295 300
 Gly Val Asn Ile Leu Ala Ser Pro Phe Val Thr Thr Ala Phe Ala Glu
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 325 330 335
 Ala Asp Gly Phe Val Arg Ser Asp Gly Ala Gly Val Val Val Leu Lys
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 Arg Val Asp Asp Ala Ile Arg Asp Gly Asp Lys Ile Ile Gly Val Ile
 355 360 365
 Lys Gly Ser Ala Val Asn Ser Asp Gly His Ser Asn Gly Leu Thr Ala
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 Pro Asn Pro Asp Ala Gln Val Asp Val Leu Gln Arg Ala Tyr Val Asp
 385 390 395
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 405 410 415
 Gly Thr Ile Leu Gly Asp Pro Ile Glu Ala Thr Ala Leu Gly Ala Val
 420 425 430
 Leu Gly Tyr Gly Arg Asp Ala Ser Thr Pro Thr Leu Leu Gly Ser Ala
 435 440 445
 Lys Ser Asn Phe Gly His Thr Glu Ser Ala Ala Gly Ile Ala Gly Val
 450 455 460
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 465 470 475 480
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 485 490 495
 Glu Val Val Glu Asp Pro Arg Glu Trp Pro Glu Tyr Asn Gly His Ala
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 Val Ala Gly Val Ser Ala Phe Gly Phe Gly Gly Thr Asn Ala His Val
 515 520 525
 Val Ile Ser Glu Tyr Asn Ala Glu Asp Tyr Glu Thr Arg Ala Pro Lys
 530 535 540
 Glu Ala Leu Leu Pro Asp Gln Gln Val Ala Leu Pro Val Ser Gly His
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 Leu Pro Ser Arg Arg Arg Gln Ala Ala Ala Asp Leu Ala Asp Phe Leu
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 Gly Arg Asn His Gly Arg Ser Arg Ala Val Val Leu Ala Ser Thr Ile

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595 600 605
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 610 615 620
 Val Gly Ile Ser Ala Ala Asp Ser Pro Ala Ala Asn Gly Pro Val Phe
 625 630 635 640
 Val Tyr Ser Gly Phe Gly Ser Gln His Arg Leu Met Ile Lys Glu Leu
 645 650 655
 Cys Ser Ile Ser Pro Gln Phe Arg Glu Arg Ile Glu Glu Leu Asp Glu
 660 665 670
 Met Val Lys Phe Glu Ser Gly Trp Ser Ile Met Lys Leu Val Leu Asp
 675 680 685
 Asp Glu Gln Thr Tyr Asp Thr Glu Thr Ala Gln Val Val Ile Thr Ala
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 Ile Gln Ile Ala Leu Thr Asp Leu Leu Ala Ser Phe Gly Val Lys Pro
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 755 760 765
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 Arg Lys Val Pro Glu Ala Glu Ser Leu Arg Asp Leu Leu Ala Lys Leu
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 Tyr Val Asn Gly Ala Asn Val Asp Phe Ser Ala Leu Tyr Gly Glu Gly

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965

970

975

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 Thr Glu Val Gln Gly Asn Ile Arg Val Leu Arg Gly Arg Ala Glu Gly

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1340

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Tyr Gly Val Glu Arg Leu Glu Gly Asp Leu Ala Asp Arg Ala Ala Ala
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Tyr Val Asp Asp Ile Lys Lys Tyr Ser Asp Gly Phe Pro Val Val Leu
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